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SEQUENCE LISTING

<110> APOGENIX Biotechnology AG

<120> Improved FC Fusion Proteins

<130> 31098PWO-HC

<140> PCT/EP2004/003239

<141> 2004-03-26

<150> PCT/2004/003239

<151> 2004-03-26

<160> 82

<170> PatentIn Ver. 2.1

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the amplification of CD95 cDNA

<220>

<223> Sense huCD95-Hind III

<400> 1

tataaagctt gccaccatgc tggcatctg

30

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for
the amplification of CD95 cDNA

<220>

<223> Antisense huCD95-Bgl II

<400> 2

tataagatct ggatccttcc tctttgc

27

<210> 3
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
for the amplification of IgG1 Fc cDNA

<220>
<223> Sense hulgG1Fc-BgIII

<400> 3
tataagatct tgtgacaaaa ctcacacatg 30

<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for
the amplification of IgG1 Fc cDNA

<220>
<223> Antisense hulgG1Fc-XhoI

<400> 4
tatactcgag tcatttaccc ggagacaggg 30

<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for
the changing the Kozak Sequence from GCCACCATGC to
GCCGCCACCATGG

<220>
<223> ShuCD95EC_altKozak

<400> 5

tataaaagctt gccgccacca tgggtgggcat c

31

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the changing the Kozak Sequence from
GCCACCATGC to GCCGCCACCATGG

<220>

<223> AS698 hulgG1Fc-Xhol

<400> 6

tataactcgag tcattttaccc ggagacaggg

30

<210> 7

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>

<223> Sense_hulgG1

<400> 7

ccagggactc ctgcctcttg tgacaaaaact cacacatg

38

<210> 8

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>

<223> Antisense_ERIhulgG1

<400> 8
tatagaattc tcatTTaccc ggagacaggg 30

<210> 9
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer used to amplify the cDNA of TRAILR2 domain

<220>
<223> Sense_HIII_TRAILR2

<400> 9
tataaagctt gccgccacca tggaacaacg gggacagaac 40

<210> 10
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer used to amplify the cDNA of TRAILR2 domain

<220>
<223> Antisense_TRAILR2

<400> 10
gtgagtttg tcacaagagg caggagtccc tgg 33

<210> 11
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for PCR used to utilize fragments for cloning purposes

<220>

<223> Sense_HIII_TRAILR2

<400> 11

tataaaagctt gccgccacca tggaacaacg gggacagaac

40

<210> 12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
PCR used to utilize fragments for cloning
purposes

<220>

<223> Antisense_ERIhulgG1

<400> 12

tatagaattc tcatttaccc ggagacaggg

30

<210> 13

<211> 335

<212> PRT

<213> human

<220>

<223> CD95 >sp/P25445/TNR6_HUMAN Tumor necrosis factor
receptor superfamily 6 precursor (FASL-receptor)
(Apoptosis-mediating surface antigen FAS) (Apo-1
antigen) (CD95) - Homo sapiens (Human)

<400> 13

Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
1 5 10 15

Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser
20 25 30

Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Val Glu Thr Gln Asn
35 40 45

Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro
50 55 60

Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro

65	70	75	80
Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His			
85	90		95
Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp Glu Gly His Gly			
100	105		110
Leu Glu Val Glu Ile Asn Cys Thr Arg Thr Gln Asn Thr Lys Cys Arg			
115	120	125	
Cys Lys Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp			
130	135	140	
Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr			
145	150	155	160
Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn Leu Gly Trp			
165	170		175
Leu Cys Leu Leu Leu Pro Ile Pro Leu Ile Val Trp Val Lys Arg			
180	185	190	
Lys Glu Val Gln Lys Thr Cys Arg Lys His Arg Lys Glu Asn Gln Gly			
195	200	205	
Ser His Glu Ser Pro Thr Leu Asn Pro Glu Thr Val Ala Ile Asn Leu			
210	215	220	
Ser Asp Val Asp Leu Ser Lys Tyr Ile Thr Thr Ile Ala Gly Val Met			
225	230	235	240
Thr Leu Ser Gln Val Lys Gly Phe Val Arg Lys Asn Gly Val Asn Glu			
245	250		255
Ala Lys Ile Asp Glu Ile Lys Asn Asp Asn Val Gln Asp Thr Ala Glu			
260	265	270	
Gln Lys Val Gln Leu Leu Arg Asn Trp His Gln Leu His Gly Lys Lys			
275	280	285	
Glu Ala Tyr Asp Thr Leu Ile Lys Asp Leu Lys Lys Ala Asn Leu Cys			
290	295	300	
Thr Leu Ala Glu Lys Ile Gln Thr Ile Ile Leu Lys Asp Ile Thr Ser			
305	310	315	320
Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile Gln Ser Leu Val			

325

330

335

<210> 14

<211> 330

<212> PRT

<213> human

<220>

<223> IgG1 > sp/P01857/GC1_HUMAN Ig gamma-1 chain C
region - Homo sapiens (Human)

<400> 14

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu

	180	185	190
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn			
195	200	205	
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly			
210	215	220	
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu			
225	230	235	240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr			
245	250	255	
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn			
260	265	270	
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe			
275	280	285	
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn			
290	295	300	
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr			
305	310	315	320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys			
325	330		

<210> 15
<211> 400
<212> PRT
<213> Artificial Sequence

<220>
<221> MUTAGEN
<222> (1)..(400)
<223> CD95-Fc fusion protein (AA 1-172 CD95 and AA 102-330 IgG1)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 15
Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
1 5 10 15

Arg	Leu	Ser	Ser	Lys	Ser	Val	Asn	Ala	Gln	Val	Thr	Asp	Ile	Asn	Ser
	20					25					30				
Lys	Gly	Leu	Glu	Leu	Arg	Lys	Thr	Val	Thr	Val	Glu	Thr	Gln	Asn	
	35				40						45				
Leu	Glu	Gly	Leu	His	His	Asp	Gly	Gln	Phe	Cys	His	Lys	Pro	Cys	Pro
	50			55					60						
Pro	Gly	Glu	Arg	Lys	Ala	Arg	Asp	Cys	Thr	Val	Asn	Gly	Asp	Glu	Pro
	65			70			75			80					
Asp	Cys	Val	Pro	Cys	Gln	Glu	Gly	Lys	Glu	Tyr	Thr	Asp	Lys	Ala	His
	85				90						95				
Phe	Ser	Ser	Lys	Cys	Arg	Arg	Cys	Arg	Leu	Cys	Asp	Glu	Gly	His	Gly
	100				105				110						
Leu	Glu	Val	Glu	Ile	Asn	Cys	Thr	Arg	Thr	Gln	Asn	Thr	Lys	Cys	Arg
	115			120			125								
Cys	Lys	Pro	Asn	Phe	Phe	Cys	Asn	Ser	Thr	Val	Cys	Glu	His	Cys	Asp
	130			135				140							
Pro	Cys	Thr	Lys	Cys	Glu	His	Gly	Ile	Ile	Lys	Glu	Cys	Thr	Leu	Thr
	145			150			155			160					
Ser	Asn	Thr	Lys	Cys	Lys	Glu	Glu	Gly	Ser	Arg	Ser	Cys	Asp	Lys	Thr
	165			170				175							
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser
	180			185			190								
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
	195			200			205								
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro
	210			215			220								
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala
	225			230			235			240					
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val
	245			250			255								
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
	260			265			270								

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
275 280 285

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
290 295 300

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
305 310 315 320

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
325 330 335

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
340 345 350

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
355 360 365

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
370 375 380

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
385 390 395 400

<210> 16

<211> 43

<212> PRT

<213> human

<220>

<223> CD95 extracellular domain (AA 131-173)

<400> 16

Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
1 5 10 15

Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
20 25 30

Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn
35 40

<210> 17
<211> 22
<212> PRT
<213> human

<220>
<223> huIgG1 (AA 99-120)

<400> 17
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15
Pro Glu Leu Leu Gly Gly
20

<210> 18
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> CD95-Fc fusion protein of CD95 extracellular
domain (AA 131-173) and huIgG1 (AA99-120) with an
overlapping amino acid (CD95 AA 172 and huIgG1 AA
102)

<220>
<223> Description of Artificial Sequence: fusion
protein

<400> 18
Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
1 5 10 15

Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
20 25 30

Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Cys Asp Lys Thr His Thr
35 40 45

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55 60

<210> 19
<211> 468
<212> PRT
<213> human

<220>

<223> TRAIL-R1 >sp/000220/T10A_HUMAN Tumor necrosis factor receptor superfamily member 10A precursor (Death receptor 4) (TNF-related apoptosis-including ligand receptor 1) (TRAIL receptor-1) (TRAIL-R1)

<400> 19

Met Ala Pro Pro Pro Ala Arg Val His Leu Gly Ala Phe Leu Ala Val
1 5 10 15

Thr Pro Asn Pro Gly Ser Ala Ala Ser Gly Thr Glu Ala Ala Ala Ala
20 25 30

Thr Pro Ser Lys Val Trp Gly Ser Ser Ala Gly Arg Ile Glu Pro Arg
35 40 45

Gly Gly Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro
50 55 60

Ser Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Arg Pro Ala Arg
65 70 75 80

Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val Val
85 90 95

Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr Ile Lys
100 105 110

Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His Ser Pro Leu
115 120 125

Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu His Pro Gly Ala
130 135 140

Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr Asn Ala Ser Asn Asn
145 150 155 160

Leu Phe Ala Cys Leu Pro Cys Thr Ala Cys Lys Ser Asp Glu Glu Glu
165 170 175

Arg Ser Pro Cys Thr Thr Arg Asn Thr Ala Cys Gln Cys Lys Pro

180	185	190
Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser		
195	200	205
Arg Gly Cys Pro Arg Gly Met Val Lys Val Lys Asp Cys Thr Pro Trp		
210	215	220
Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile		
225	230	235
Trp Val Ile Leu Val Val Thr Leu Val Val Pro Leu Leu Leu Val Ala		
245	250	255
Val Leu Ile Val Cys Cys Cys Ile Gly Ser Gly Cys Gly Gly Asp Pro		
260	265	270
Lys Cys Met Asp Arg Val Cys Phe Trp Arg Leu Gly Leu Leu Arg Gly		
275	280	285
Pro Gly Ala Glu Asp Asn Ala His Asn Glu Ile Leu Ser Asn Ala Asp		
290	295	300
Ser Leu Ser Thr Phe Val Ser Glu Gln Gln Met Glu Ser Gln Glu Pro		
305	310	315
Ala Asp Leu Thr Gly Val Thr Val Gln Ser Pro Gly Glu Ala Gln Cys		
325	330	335
Leu Leu Gly Pro Ala Glu Ala Glu Gly Ser Gln Arg Arg Arg Leu Leu		
340	345	350
Val Pro Ala Asn Gly Ala Asp Pro Thr Glu Thr Leu Met Leu Phe Phe		
355	360	365
Asp Lys Phe Ala Asn Ile Val Pro Phe Asp Ser Trp Asp Gln Leu Met		
370	375	380
Arg Gln Leu Asp Leu Thr Lys Asn Glu Ile Asp Val Val Arg Ala Gly		
385	390	395
400		
Thr Ala Gly Pro Gly Asp Ala Leu Tyr Ala Met Leu Met Lys Trp Val		
405	410	415
Asn Lys Thr Gly Arg Asn Ala Ser Ile His Thr Leu Leu Asp Ala Leu		
420	425	430
Glu Arg Met Glu Glu Arg His Ala Lys Glu Lys Ile Gln Asp Leu Leu		

435

440

445

Val Asp Ser Gly Lys Phe Ile Tyr Leu Glu Asp Gly Thr Gly Ser Ala
450 455 460

Val Ser Leu Glu
465

<210> 20

<211> 39

<212> PRT

<213> human

<220>

<223> Trail R1 extracellular domain (AA 201-239)

<400> 20

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Gly Asn Gly His Asn
35

<210> 21

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 233 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 21

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly
50

<210> 22
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAILR1 AA
232 and huIgG1 AA 101)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 22
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 23
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1

(AA99-120) with an overlapping amino acid (TRAILR1
AA 234 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 23

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly

50

<210> 24

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 238 and huIgG1 AA 107)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 24

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Gly Asn Gly His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly

50

<210> 25
<211> 440
<212> PRT
<213> human

<220>
<223> Trail-R2 >sp/014763/T10B_HUMAN Tumor necrosis factor receptor superfamily member 10B precursor (Death receptor 5) (TNF-related apoptosis-including ligand receptor 2) (TRAIL receptor-2) (TRAIL-R2)

<400> 25
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys
1 5 10 15

Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30

Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45

Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60

Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
65 70 75 80

Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser
85 90 95

Cys Lys Tyr Gly Gln Asp Tyr Ser Thr His Trp Asn Asp Leu Leu Phe
100 105 110

Cys Leu Arg Cys Thr Arg Cys Asp Ser Gly Glu Val Glu Leu Ser Pro
115 120 125

Cys Thr Thr Thr Arg Asn Thr Val Cys Gln Cys Glu Glu Gly Thr Phe
130 135 140

Arg Glu Glu Asp Ser Pro Glu Met Cys Arg Lys Cys Arg Thr Gly Cys
145 150 155 160

Pro Arg Gly Met Val Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile
165 170 175

Glu Cys Val His Lys Glu Ser Gly Thr Lys His Ser Gly Glu Ala Pro
180 185 190

Ala Val Glu Glu Thr Val Thr Ser Ser Pro Gly Thr Pro Ala Ser Pro
195 200 205

Cys Ser Leu Ser Gly Ile Ile Ile Gly Val Thr Val Ala Ala Val Val
210 215 220

Leu Ile Val Ala Val Phe Val Cys Lys Ser Leu Leu Trp Lys Lys Val
225 230 235 240

Leu Pro Tyr Leu Lys Gly Ile Cys Ser Gly Gly Gly Asp Pro Glu
245 250 255

Arg Val Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp Asn Val Leu
260 265 270

Asn Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val Pro Glu Gln Glu
275 280 285

Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly Val Asn Met Leu Ser
290 295 300

Pro Gly Glu Ser Glu His Leu Leu Glu Pro Ala Glu Ala Glu Arg Ser
305 310 315 320

Gln Arg Arg Arg Leu Leu Val Pro Ala Asn Glu Gly Asp Pro Thr Glu
325 330 335

Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val Pro Phe Asp
340 345 350

Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn Glu Ile
355 360 365

Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu Tyr Thr
370 375 380

Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His
385 390 395 400

Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln
405 410 415

Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu
420 425 430

Gly Asn Ala Asp Ser Ala Met Ser
435 440

<210> 26
<211> 40
<212> PRT
<213> human

<220>
<223> Trail R2 (long) extracellular domain (AA 171-210),
"repeat" included

<400> 26
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser
35 40

<210> 27
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R1
extracellular domain (AA 171-210) Trail R2 (long)
extracellular domain (AA 171-210), "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 210 and
huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 27

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 28

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 207 and
huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 28

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 29

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2 extracellular domain (AA 171-210; "repeat" included) and huIgG1 (AA99-120) with an overlapping amino acid (TRAIL-R2(long) AA 208 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 29

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 30

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2 extracellular domain (AA 171-210; "repeat" included) and huIgG1 (AA99-120) with an overlapping amino acid (TRAIL-R2(long) AA 205 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 30

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 31
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R1
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 209 and
huIgG1 AA 103)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 31
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 32
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an

overlapping amino acid (TRAIL-R2(long) AA 204 and
huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 32

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 33

<211> 21

<212> PRT

<213> human

<220>

<223> Trail R2 (long) extracellular domain (AA 171-191;
"repeat" not included)

<400> 33

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala
20

<210> 34

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA 171-191; "repeat"
not included) and huIgG1 (AA 99-120) with an

overlapping amino acid (TRAIL-R2(long) AA190 and
huIgG1 AA99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 34

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
20 25 30

Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 35

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA186 and
huIgG1 AA101).

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 35

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
20 25 30

Leu Gly Gly
35

<210> 36

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA188 and
huIgG1 AA102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 36

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
20 25 30

Leu Leu Gly Gly

35

<210> 37

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA185 and
huIgG1 AA106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 37

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr His
1 5 10 15

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly

20 25

<210> 38
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA187 and
huIgG1 AA107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 38

Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Thr	Lys
1									10					15	

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
20 25 30

<210> 39
<211> 411
<212> PRT
<213> human

<220>
<223> Trail-R2 (short) >sp/014763/T10B_HUMAN Tumor
necrosis factor receptor superfamily 10B precursor
(Death receptor 5) (TNF-related apoptosis-inducing
ligand receptor 2) (TRAIL receptor-2) (TRAIL-R2)

<400> 39

Met	Glu	Gln	Arg	Gly	Gln	Asn	Ala	Pro	Ala	Ala	Ser	Gly	Ala	Arg	Lys
1									10					15	

Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30

Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45

Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60

Gln	Arg	Ala	Ala	Pro	Gln	Gln	Lys	Arg	Ser	Ser	Pro	Ser	Glu	Gly	Leu
65				70					75				80		
Cys	Pro	Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	Cys	Ile	Ser
				85				90					95		
Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe
				100				105					110		
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro
				115				120				125			
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe
				130				135			140				
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys
				145				150			155		160		
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile
				165				170				175			
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala
				180				185				190			
Ala	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp
				195				200				205			
Lys	Lys	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly
				210				215				220			
Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp
				225				230			235		240		
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro
				245				250				255			
Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn
				260				265				270			
Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala
				275				280				285			
Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp
				290				295				300			
Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val
				305				310			315		320		

Pro Phe Asp Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp
325 330 335

Asn Glu Ile Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr
340 345 350

Leu Tyr Thr Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala
355 360 365

Ser Val His Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu
370 375 380

Ala Lys Gln Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met
385 390 395 400

Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser
405 410

<210> 40

<211> 34

<212> PRT

<213> human

<220>

<223> Trail-R2 (short) extracellular domain (AA 151 - AA
184)

<400> 40

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Gly

<210> 41

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2

(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 182 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 41

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 42

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 181 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein.

<400> 42

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Ser
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
35 40 45

Gly Gly
50

<210> 43
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 183 and huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 43

Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	Lys
1				5					10				15		

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 44
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 180 and huIgG1 AA 107)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 44

Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	Lys

1

5

10

15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Thr Cys
20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 45

<211> 259

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3>sp/014798/T10C_HUMAN Tumor necrosis factor receptor superfamily member 10C precursor;Decoy receptor 1;DcR1;Decoy TRAIL receptor without death domain;TNF-related apoptosis inducing ligand r3

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 45

Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val Ala
1 5 10 15

Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu
20 25 30

Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe
35 40 45

Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly
50 55 60

Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
65 70 75 80

Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys
85 90 95

His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln Cys Lys
100 105 110

Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys Arg Lys Cys

115	120	125	
Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp			
130	135	140	
Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu			
145	150	155	160
Thr Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala			
165	170	175	
Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala .Pro			
180	185	190	
Ala Ala Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Pro Ala			
195	200	205	
Ala Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala			
210	215	220	
Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr			
225	230	235	240
Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile			
245	250	255	
Val Phe Val			

<210> 46
<211> 36
<212> PRT
<213> human

<220>
<223> Trail-R3 extracellular domain (AA 201-236;
"repeats" included)

<400> 46
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser

1	5	10	15
---	---	----	----

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro

20	25	30
----	----	----

Gly Thr Pro Ala

<210> 47
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 235 and huIgG1
AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 47
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 48
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 232 and huIgG1
AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 48
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 49
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 231 and huIgG1
AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 49
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 50
<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 234 and huIgG1
AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 50

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 51

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 230 and huIgG1
AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 51

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr His Thr

20

25

30

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 52

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 229 and huIgG1
AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 52

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr His Thr Cys
20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 53

<211> 41

<212> PRT

<213> human

<220>

<223> Trail-R3 extracellular domain (AA 121-161,
"repeats" not included)

<400> 53

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu

20

25

30

Phe Gly Ala Asn Ala Thr Val Glu Thr
35 40

<210> 54
<211> 61
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 160 and
huIgG1 AA 99)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 54
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30

Phe Gly Ala Asn Ala Thr Val Glu Pro Lys Ser Cys Asp Lys Thr His
35 40 45

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55 60

<210> 55
<211> 53
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 152 and
huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 55

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly

50

<210> 56

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats" not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 151 and huIgG1
AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 56

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Pro
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly

50

<210> 57
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3 extracellular domain (AA 121-161; "repeats"not included) and huIgG1 (AA 99-120) with an overlapping amino acid (TRAIL-R3 AA 161 and huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 57
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30

Phe Gly Ala Asn Ala Thr Val Glu Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 58
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3 extracellular domain (AA 121-161; "repeats"not included) and huIgG1 (AA 99-120) with an overlapping amino acid (TRAIL-R3 AA 158 and huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 58
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val

1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 . 25 30

Phe Gly Ala Asn Ala Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 59

<211> 386

<212> PRT

<213> human

<220>

<223> Trail-R4>sp/Q9UBN6/T10D_HUMAN Tumor necrosis
factor receptor superfamily member 10D
precursor;Decoy receptor 2; DcR2; TNF-related
apoptosis-inducing ligand receptor 4)

<400> 59

Met Gly Leu Trp Gly Gln Ser Val Pro Thr Ala Ser Ser Ala Arg Ala
1 5 10 15

Gly Arg Tyr Pro Gly Ala Arg Thr Ala Ser Gly Thr Arg Pro Trp Leu
20 25 30

Leu Asp Pro Lys Ile Leu Lys Phe Val Val Phe Ile Val Ala Val Leu
35 40 45

Leu Pro Val Arg Val Asp Ser Ala Thr Ile Pro Arg Gln Asp Glu Val
50 55 60

Pro Gln Gln Thr Val Ala Pro Gln Gln Arg Arg Ser Leu Lys Glu
65 70 75 80

Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu Tyr Thr Gly Ala Cys
85 90 95

Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Ile Ala Ser Asn Asn Leu
100 105 110

Pro Ser Cys Leu Leu Cys Thr Val Cys Lys Ser Gly Gln Thr Asn Lys
115 120 125

Ser Ser Cys Thr Thr Arg Asp Thr Val Cys Gln Cys Glu Lys Gly
130 135 140

Ser Phe Gln Asp Lys Asn Ser Pro Glu Met Cys Arg Thr Cys Arg Thr
145 150 155 160

Gly Cys Pro Arg Gly Met Val Lys Val Ser Asn Cys Thr Pro Arg Ser
165 170 175

Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala Ser Ser Thr Gly Lys Thr
180 185 190

Pro Ala Ala Glu Glu Thr Val Thr Ile Leu Gly Met Leu Ala Ser
195 200 205

Pro Tyr His Tyr Leu Ile Ile Val Val Leu Val Ile Ile Leu Ala
210 215 220

Val Val Val Val Gly Phe Ser Cys Arg Lys Lys Phe Ile Ser Tyr Leu
225 230 235 240

Lys Gly Ile Cys Ser Gly Gly Gly Gly Pro Glu Arg Val His Arg
245 250 255

Val Leu Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly Ala Glu
260 265 270

Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr Leu Gln Pro Thr
275 280 285

Gln Val Ser Glu Gln Glu Ile Gln Gly Gln Glu Leu Ala Glu Leu Thr
290 295 300

Gly Val Thr Val Glu Ser Pro Glu Glu Pro Gln Arg Leu Leu Glu Gln
305 310 315 320

Ala Glu Ala Glu Gly Cys Gln Arg Arg Leu Leu Val Pro Val Asn
325 330 335

Asp Ala Asp Ser Ala Asp Ile Ser Thr Leu Leu Asp Ala Ser Ala Thr
340 345 350

Leu Glu Glu Gly His Ala Lys Glu Thr Ile Gln Asp Gln Leu Val Gly
355 360 365

Ser Glu Lys Leu Phe Tyr Glu Glu Asp Glu Ala Gly Ser Ala Thr Ser
370 375 380

Cys Leu
385

<210> 60
<211> 41
<212> PRT
<213> human

<220>
<223> Trail-R4 extracellular domain (AA 171-211)

<400> 60
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30

Leu Gly Met Leu Ala Ser Pro Tyr His
35 40

<210> 61
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 209 and huIgG1 AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 61
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30

Leu Gly Met Leu Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys

35

40

45

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 62

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 62

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30

Leu Gly Met Leu Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 63

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 201 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 63

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr His
20 25 30

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 64

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 211 and huIgG1 AA 107)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 64

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30

Leu Gly Met Leu Ala Ser Pro Tyr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly

50

<210> 65

<211> 455

<212> PRT

<213> human

<220>

<223> TNF-R1 >sp/P19438/TR1A_HUMAN necrosis factor
receptor superfamily member 1A precursor (p60)
(TNF-R1) (p55) (CD120a) [contains: Tumor necrosis
factor binding protein 1 (TBPI)]

<400> 65

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
100 105 110

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
115 120 125

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
130 135 140

Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
145 150 155 160

Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
165 170 175

Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
180 185 190

Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
195 200 205

Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
210 215 220

Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
225 230 235 240

Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
245 250 255

Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
260 265 270

Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
275 280 285

Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
290 295 300

Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
305 310 315 320

Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
325 330 335

Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
340 345 350

Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
355 360 365

Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
370 375 380

Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
385 390 395 400

Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
405 410 415

Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
420 425 430

Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
435 440 445

Pro Ala Pro Ser Leu Leu Arg
450 455

<210> 66
<211> 41
<212> PRT
<213> human

<220>
<223> TNF-R1 extracellular domain (AA 171-211)

<400> 66

Gly	Phe	Phe	Leu	Arg	Glu	Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys
1									10						15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val

		20			25					30					
--	--	----	--	--	----	--	--	--	--	----	--	--	--	--	--

Lys Gly Thr Glu Asp Ser Gly Thr Thr

	35		40												
--	----	--	----	--	--	--	--	--	--	--	--	--	--	--	--

<210> 67
<211> 57
<212> PRT
<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 206 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 67

Gly	Phe	Phe	Leu	Arg	Glu	Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys
1									10						15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val

		20			25					30					
--	--	----	--	--	----	--	--	--	--	----	--	--	--	--	--

Lys Gly Thr Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro

	35		40			45									
--	----	--	----	--	--	----	--	--	--	--	--	--	--	--	--

Cys Pro Ala Pro Glu Leu Leu Gly Gly

	50		55												
--	----	--	----	--	--	--	--	--	--	--	--	--	--	--	--

<210> 68
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 101)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 68
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 69
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 105)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 69

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 70

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 70

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 71

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 207 and huIgG1 AA 104)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 71

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly

50

<210> 72

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 211 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 72

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 73
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 210 and huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 73
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly
50

<210> 74
<211> 461
<212> PRT
<213> human

<220>
<223> TNF-R2 >sp/P20333/TR1B_HUMAN necrosis factor receptor superfamily member 1B precursor (p80) (TNF-R2) (p75) (CD120b) [contains: Tumor necrosis factor binding protein 2 (TBPII)]

<400> 74
 Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu
 1 5 10 15
 Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr
 20 25 30
 Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln
 35 40 45
 Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys
 50 55 60
 Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp
 65 70 75 80
 Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys
 85 90 95
 Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg
 100 105 110
 Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
 115 120 125
 Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg
 130 135 140
 Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val
 145 150 155 160
 Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr
 165 170 175
 Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly
 180 185 190
 Asn Ala Ser Met Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser
 195 200 205
 Met Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser
 210 215 220
 Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser
 225 230 235 240
 Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly

245	250	255
Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly		
260	265	270
Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys		
275	280	285
Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro		
290	295	300
Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu		
305	310	315
Ile Thr Ala Pro Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser		
325	330	335
Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly		
340	345	350
Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser		
355	360	365
Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile		
370	375	380
Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln		
385	390	395
Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro		
405	410	415
Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser		
420	425	430
Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro		
435	440	445
Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser		
450	455	460

<210> 75
 <211> 37
 <212> PRT
 <213> human

<220>

<223> TNF-R2 extracellular domain (AA 221-257)

<400> 75

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr Gly Asp

35

<210> 76

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 252 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 76

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly

50

<210> 77

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 250 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 77

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Lys Ser
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
35 40 45

Gly Gly

50

<210> 78

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 249 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 78

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Lys Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 79
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 254 and huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 79
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 80
<211> 46
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 248 and huIgG1

AA 102)

<220>

<223> Description of Artificial Sequence: fusion
protein

<400> 80

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Cys Asp Lys Thr
20 25 30

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 81

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular
domain (AA 221-257) and huIgG1 (AA 99-120) with an
overlapping amino acid (TNF-R2 AA 257 and huIgG1
AA 104)

<220>

<223> Description of Artificial Sequence: fusion
protein

<400> 81

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly

50

<210> 82
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 255 and huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 82
Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly